

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P954630

Luminaire Tested: **GALN-SB7D-827-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954630  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7D-827-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

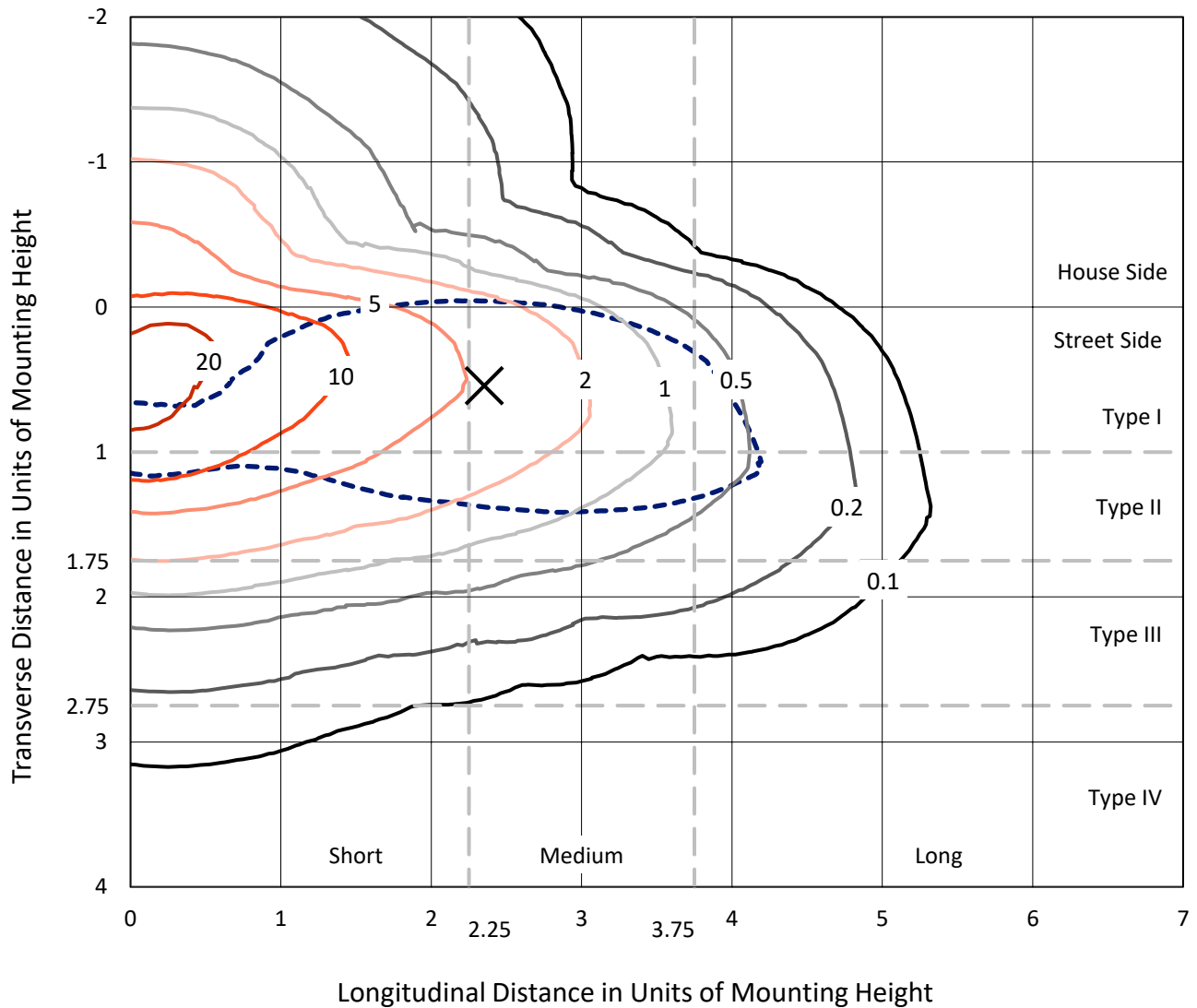
Lumens per Lamp: N/A  
Luminaire Lumens: 64097 lumens  
Efficiency: N/A  
Efficacy: 125.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

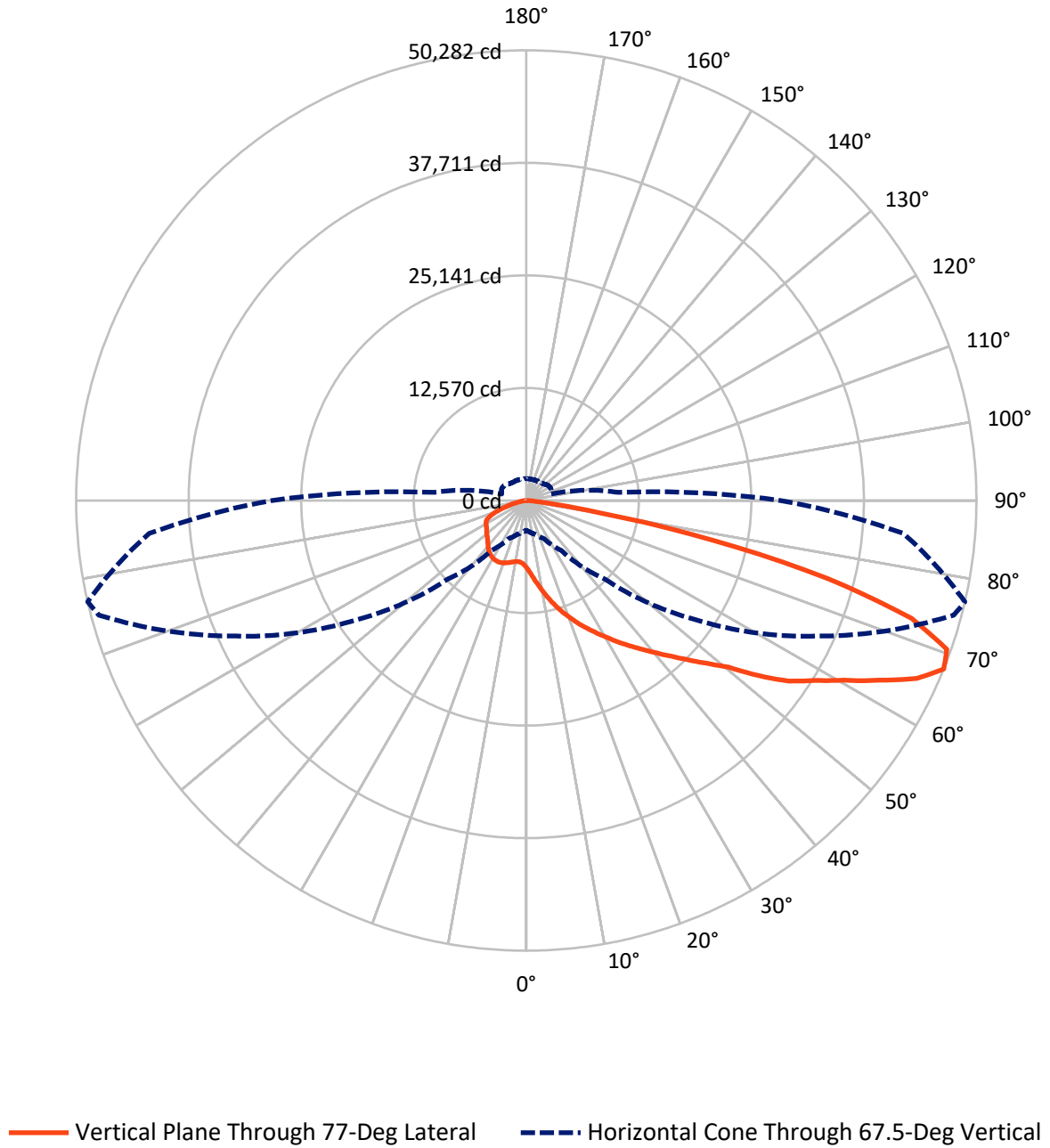
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12124.6	0.0	12124.6
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	51972.4	0.0	51972.4
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	64097.0	0.0	64097.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	806.1	1.3
10°-20°	2896.0	4.5
20°-30°	5467.9	8.5
30°-40°	8808.8	13.7
40°-50°	12048.8	18.8
50°-60°	13591.1	21.2
60°-70°	12685.6	19.8
70°-80°	6953.9	10.8
80°-90°	838.8	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	64097.0	100.0
0°-180°	64097.0	100.0



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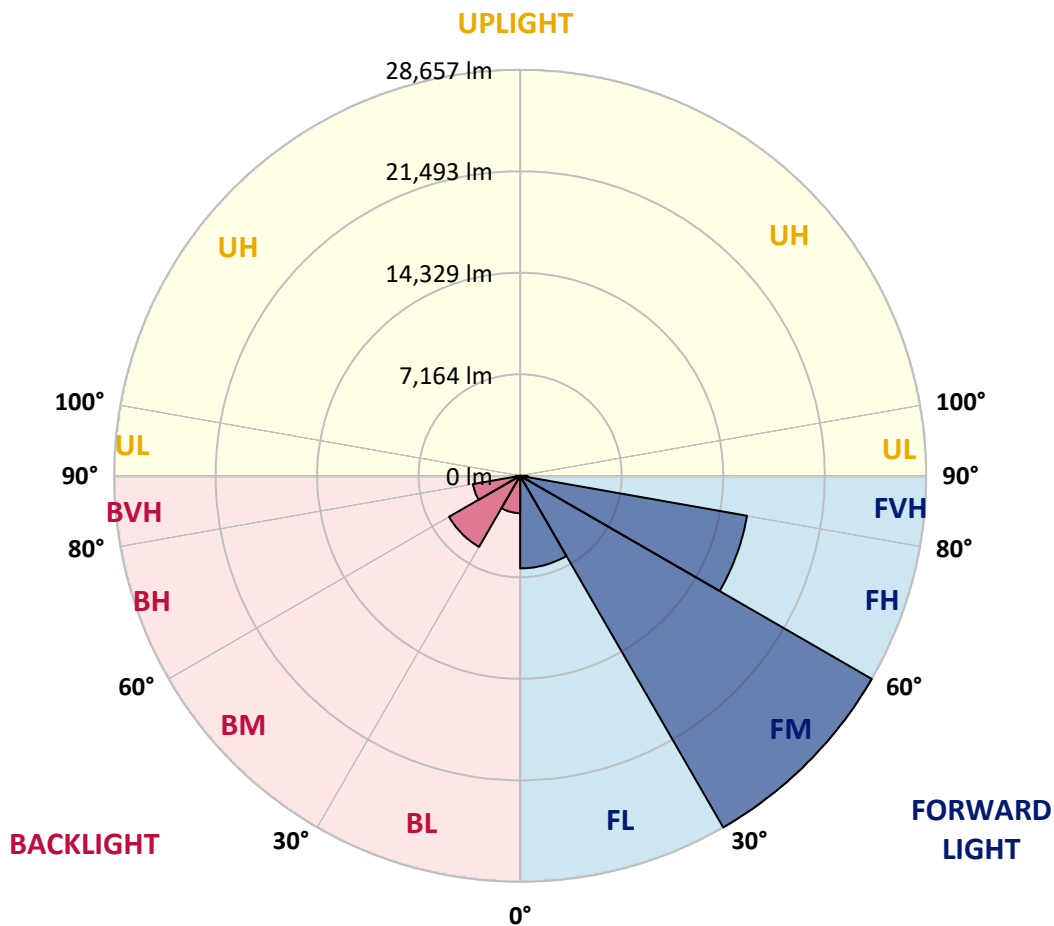
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6533.9	10.2			
FM (30°-60°)	28657.1	44.7			
FH (60°-80°)	16256.9	25.4			G5
FVH (80°-90°)	524.6	0.8			G4/750
BL (0°-30°)	2636.2	4.1	B4/5000		
BM (30°-60°)	5791.6	9.0	B4/8500		
BH (60°-80°)	3382.6	5.3	B4/5000		G4/5000
BVH (80°-90°)	314.2	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7520.6	7520.6	7520.6	7520.6	7520.6	7520.6	7520.6	7520.6	7520.6	7520.6
2.5°	9416.4	9482.6	9399.9	9399.9	9122.0	8976.4	8698.5	8486.7	8106.2	8040.0
5°	11130.3	11213.0	11097.2	11047.6	10720.0	10418.9	9952.4	9492.5	8814.3	8744.8
7.5°	12457.1	12563.0	12460.4	12407.5	12116.3	11778.8	11232.9	10591.0	9634.8	9499.1
10°	13539.0	13555.6	13522.5	13542.3	13314.0	13036.1	12476.9	11729.2	10534.8	10349.5
12.5°	14151.1	14227.2	14293.4	14412.5	14372.8	14200.7	13697.8	12804.5	11487.6	11249.4
15°	14439.0	14571.3	14720.2	14994.8	15216.5	15259.5	14875.7	13959.2	12457.1	12169.2
17.5°	14541.5	14667.3	14902.2	15299.2	15775.7	16096.6	15924.5	15080.8	13416.6	13085.7
20°	15061.0	15097.4	15239.7	15616.8	16133.0	16665.7	16794.7	16159.5	14366.2	13992.3
22.5°	16172.7	16099.9	16139.6	16311.7	16682.2	17198.4	17492.9	17112.4	15342.2	14912.1
25°	18009.0	17797.2	17585.5	17387.0	17575.6	17866.7	18200.9	18065.2	16364.6	15818.7
27.5°	20328.4	20070.3	19603.8	18952.0	18723.7	18826.2	18975.1	18948.7	17310.9	16758.3
30°	22611.3	22310.3	21754.4	20811.4	20209.3	19937.9	19825.5	19749.4	18339.9	17750.9
32.5°	24434.4	24196.2	23650.3	22594.8	21721.3	21258.1	20884.2	20612.9	19415.2	18826.2
35°	26029.2	25807.5	25182.2	24030.8	23081.2	22588.2	22098.5	21519.5	20533.5	19937.9
37.5°	27485.0	27263.3	26406.4	25208.6	24252.4	23911.6	23474.9	22492.2	21655.1	21092.7
40°	28404.8	28355.2	27554.5	26197.9	25205.3	25036.6	24891.0	23620.5	22899.2	22376.4
42.5°	28639.7	28748.9	28113.6	26998.6	26052.3	25916.7	26257.5	24897.6	24295.4	23795.8
45°	28073.9	28388.2	27971.4	27213.7	26654.5	26581.7	27468.4	26293.9	25840.6	25384.0
47.5°	26641.3	27174.0	27001.9	26896.0	26816.6	27131.0	28533.8	27776.1	27590.9	27193.8
50°	23749.5	24758.7	25059.7	25728.1	26495.7	27557.8	29503.3	29394.1	29635.6	29235.3
52.5°	18750.1	20139.8	21886.7	23560.9	25509.7	27415.5	30568.6	31716.8	32735.8	32517.4
55°	15477.9	16103.2	17446.5	20517.0	23597.3	26816.6	31048.4	33592.8	35812.9	35617.7
57.5°	12963.3	13522.5	14349.6	16913.8	20705.6	25456.8	31346.2	34737.6	37920.5	37900.6
60°	10266.8	10859.0	11706.0	13522.5	17327.4	23107.6	31280.0	36041.2	40610.4	40775.8
62.5°	7222.8	7874.6	8814.3	10508.3	13876.5	20063.7	29930.1	36984.1	43776.8	44226.8
65°	4747.9	5178.0	5886.1	7348.5	10339.5	16149.5	27352.6	37106.5	47164.9	47925.8
67.5°	3328.5	3493.9	3910.8	4704.9	6815.8	12384.3	23246.6	35839.3	49424.7	50281.6
70°	2597.3	2680.0	2891.8	3209.4	4281.4	8327.9	17813.8	32543.9	48941.6	49834.9
72.5°	2243.3	2322.7	2402.1	2441.8	2871.9	5141.6	12066.7	27210.4	44392.2	44997.7
75°	2034.8	2054.7	2120.8	2107.6	2190.3	3335.1	6964.7	19825.5	35025.4	34817.0
77.5°	1710.6	1737.0	1846.2	1829.7	1945.5	2279.7	3616.4	12794.6	22707.3	21291.2
80°	1449.2	1462.4	1581.5	1561.7	1690.7	1651.0	1846.2	6521.4	9631.5	8159.1
82.5°	502.9	622.0	1207.7	1244.1	1290.4	999.2	1065.4	2660.2	2941.4	2253.2
85°	244.8	261.4	615.4	873.5	870.2	502.9	519.5	949.6	926.4	727.9
87.5°	39.7	49.6	72.8	340.8	271.3	132.3	178.7	185.3	191.9	165.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7520.6	0°	7520.6	7520.6	7520.6	7520.6	7520.6	7520.6	7520.6	7520.6	7520.6	7520.6
7788.6	2.5°	7603.3	7437.9	7090.4	6769.5	6518.0	6276.5	6140.9	6025.1	5958.9	5945.7
8152.5	5°	7808.4	7467.6	6835.7	6303.0	5955.6	5697.5	5561.8	5475.8	5432.8	5406.3
8642.2	7.5°	8102.9	7603.3	6703.3	6097.8	5733.9	5548.6	5479.1	5465.9	5462.6	5465.9
9234.5	10°	8509.9	7825.0	6690.1	6048.2	5743.8	5641.3	5637.9	5641.3	5654.5	5657.8
9879.6	12.5°	8949.9	8053.3	6743.0	6091.2	5869.6	5813.3	5803.4	5800.1	5810.0	5816.6
10531.4	15°	9429.7	8354.4	6832.4	6183.9	6008.5	5949.0	5939.0	5919.2	5915.9	5912.6
11216.3	17.5°	9922.7	8652.1	6931.6	6283.1	6097.8	6015.1	5978.7	5932.4	5896.0	5886.1
11924.4	20°	10422.3	8946.6	7001.1	6332.8	6104.5	5988.7	5915.9	5836.5	5773.6	5737.2
12639.1	22.5°	10955.0	9254.3	7044.1	6319.5	6044.9	5886.1	5753.7	5661.1	5565.2	5502.3
13360.3	25°	11474.4	9522.3	7040.8	6250.0	5929.1	5727.3	5558.5	5439.4	5307.1	5240.9
14104.8	27.5°	11974.0	9763.8	6958.1	6127.6	5763.7	5538.7	5336.9	5194.6	5065.5	5002.7
14855.9	30°	12490.2	9965.7	6829.1	5949.0	5568.5	5320.3	5098.6	4976.2	4860.4	4800.9
15649.9	32.5°	13003.0	10150.9	6647.1	5727.3	5343.5	5105.3	4886.9	4774.4	4704.9	4704.9
16503.6	35°	13545.6	10280.0	6405.6	5469.2	5105.3	4877.0	4704.9	4638.7	4632.1	4592.4
17406.8	37.5°	14118.0	10362.7	6111.1	5204.5	4870.3	4655.3	4602.3	4522.9	4456.8	4370.7
18399.4	40°	14720.2	10445.4	5757.1	4929.9	4622.2	4503.1	4479.9	4374.0	4185.4	3973.7
19524.4	42.5°	15451.4	10501.7	5389.8	4655.3	4360.8	4321.1	4354.2	4172.2	3871.1	3712.3
20880.9	45°	16298.4	10594.3	5052.3	4384.0	4092.8	4092.8	4231.8	3993.5	3745.4	3646.1
22429.4	47.5°	17396.9	10809.4	4738.0	4086.2	3844.7	3910.8	3960.5	3778.5	3639.5	3517.1
24315.3	50°	18985.1	11325.5	4413.7	3785.1	3656.1	3788.4	3718.9	3613.0	3450.9	3351.7
27312.9	52.5°	20957.0	11629.9	4125.9	3513.8	3493.9	3626.3	3527.0	3427.8	3305.3	3173.0
29586.0	55°	22300.3	11686.2	3884.4	3315.3	3384.8	3371.5	3335.1	3245.8	3179.6	3004.3
31829.2	57.5°	23802.5	11798.7	3685.8	3196.2	3315.3	3169.7	3156.5	3080.4	2994.3	2875.2
34565.5	60°	25599.1	11974.0	3513.8	3149.8	3255.7	3037.3	2971.2	2941.4	2855.4	2795.8
37857.6	62.5°	27557.8	12132.8	3338.4	3156.5	3186.2	2908.3	2809.0	2799.1	2746.2	2726.3
40947.9	65°	28894.5	11699.4	3120.1	3149.8	3077.0	2776.0	2650.2	2646.9	2603.9	2597.3
42287.9	67.5°	28428.0	10326.3	2825.6	3057.2	2964.6	2643.6	2504.7	2491.4	2435.2	2438.5
40888.3	70°	26092.0	8367.6	2418.6	2828.9	2825.6	2524.5	2352.5	2309.4	2233.3	2246.6
35551.5	72.5°	21711.4	6200.4	1872.7	2448.4	2603.9	2415.3	2177.1	2107.6	2011.7	2024.9
26244.2	75°	15679.7	4215.2	1363.2	1862.8	2266.4	2286.3	2005.0	1885.9	1770.1	1790.0
14607.7	77.5°	8023.5	2388.8	1002.5	1283.8	1780.1	2077.8	1849.5	1690.7	1664.3	1849.5
4211.9	80°	2617.1	1197.7	694.8	900.0	1168.0	1700.6	1621.2	1439.3	1432.6	1475.7
883.4	82.5°	780.8	506.2	446.7	592.2	645.2	1303.6	1399.6	1088.5	936.3	986.0
294.5	85°	268.0	244.8	254.8	294.5	307.7	764.3	979.4	721.3	681.6	751.1
66.2	87.5°	62.9	86.0	72.8	66.2	66.2	185.3	380.5	301.1	416.9	277.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
7520.6
5945.7
5403.0
5475.8
5661.1
5819.9
5909.3
5896.0
5750.4
5505.6
5240.9
4999.4
4797.5
4708.2
4582.5
4357.5
3943.9
3715.6
3662.7
3513.8
3341.7
3146.5
3007.6
2835.5
2812.4
2726.3
2594.0
2438.5
2259.8
2021.6
1796.6
1823.1
1267.2
1019.1
741.1
268.0
0.0

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